

an
Inaugural Dissertation

on
acute Peritonitis

Respectfully submitted
To the

Medical Faculty
of

The U. Versity of Pennsylvania
By

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of { 3^d. 1823.
Virginia

Department of Education

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Medical Faculty

The Medical Faculty of the State of New York

Resolved, That the following

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When we contemplate at what length the diseases of the bowels have been treated by most physicians of every age & country, we cannot but be surprised that Peritonitis a disease which in many respects is so closely allied to many of those affections, particularly Cholera & Enteritis should have attracted so little attention & is comparatively so little understood. It being however, a disease, insidious in its nature & replete with danger, & having been marked by some peculiarity of treatment, different from the two already mentioned, I have thought proper to bestow on it a more particular consideration, though not so much with a view of saying any thing new on the subject, as with a hope of exciting the attention of those to it, who are better able to give to it a more just & satisfactory investigation.

The symptoms which characterize Acute Peritonitis, are rigor & shivering with pain in the abdomen, varying very much in its seat, its degree of violence & general character. Sometimes the

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pain is confined to a particular part, but most commonly, it is diffused over the abdomen. It is very much increased by pressure, & in some cases, it is very little complained of, except, when pressure is made, having the feel of aether of tenderness than acute pain. Quickly succeeding to these symptoms are more or less of fever. The pulse, is remarkably small, quick & corded, & untie strictly, attended to may decide the practitioner as to the nature of the complaint. The patient now complains of thirst heat & dryness of the tongue & fauces, though dryness of these parts do not uniformly take place for frequently they are perfectly moist. Then there are the more ordinary symptoms which usher in an attack of Peritonitis, but most commonly in 12 or 24 hours & frequently in a much shorter period, the pain & tenderness of the abdomen become so much increased, that the weight of the bed clothes are rendered

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almost insupportable. Examined at this time, we should find the patient on his back, writhing under most excruciating pains, with his knees drawn up, the tendons & swelling of his abdomen considerably augmented, his pulse small & contracted to the feel, & his tongue covered with a tough cream coloured mucus. The drawing up of the knees, is a very prominent symptom in this disease, for scarcely is there a case, where the patient does not recur to this posture, to relieve himself of pain. This it does by relaxing the abdominal muscles, & throwing the weight of the intestines on the back. The state of the bowels varies greatly in Peritonitis, sometimes they are loose, but most commonly in a natural condition being very readily moved by very mild medicines. Evacuations from the bowels produce however little relief, but serve rather to aggravate his sufferings during the time of operation & after it is over.

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As however the disease advances, all the symptoms increase, particularly the pain & tumefaction of the abdomen. It now frequently happens at this conjuncture, that the pain which before was excruciating & excessive, suddenly ceases as if relieved by some one of our remedies.

We should however not construe this into an auspicious omen as it is most commonly considered by those who have had much experience in the disease, to be the precursors of death. With this sudden subsidence of pain, there likewise takes place a corresponding subsidence in the force of the pulse, which is greatly increased in rapidity so much so indeed, that it can scarcely be counted, dark matter is now vomited or expelled from the stomach with spasmotic or apasmotic effort. Cold Clammy sweat now breaks out, the extremities become cold & clammy, the countenance collapses & haggard & finally difficult & laborious respiration closes the tragic scene. Inflammation of

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The Peritonaeum may occur in a more limited form than the one I have mentioned, & according to the seat of it, various neighboring organs are affected, which give rise to a great diversity of symptoms. When it is in the lower part of the abdomen, it is generally accompanied by frequent painful desire to pass urine, & a acute pain extending along the urethra, leading to the suspicion of retention of urine the catheter being employed in such cases the bladder is found empty. When the inflammation is seated in that part of the Peritonaeum contiguous to the stomach & upper part of the abdominal canal, there is great nausea & vomiting, & sometimes a peculiar convulsive contraction or belching of wind. Hiccups & quick short breathing occurs which is probably connected with an affection of the diaphragm. Such are the general characters of Peritonaeitis, it differs however from Cholera & Enteritis in this, that the bowels are natural or loose, the pulse small & corded & above 100 in a minute, by



The pain, in Peritonitis being more permanent, by its
 being increased by various even before tension has
 taken place, in the abdomen, by its producing an
 inclination to go to stool, & by its not being diminished
 if this evacuation be produced spontaneously
 or by design. What however is most remarkable
 in Peritoneal inflammation is, that portion of it
 which lines the parietis of the abdomen never
 extends its inflammation to the muscles anteriorly.
 The fact is exactly the reverse as it regards the
 viscera contained in the abdominal cavity.
 Peritoneal inflammation may extend to the
 muscular line of the intestines & terminate in
 confirmed Intestitis. It is yet a question among
 physicians, whether inflammation may be
 confined to the parietis of the Peritoneum lining the
 parietis of the abdomen, without affecting the
 intestinal canal? As it regards the prognosis
 of Peritonitis we should be encouraged only
 by a change when attended with a

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gradual diminution of all the symptoms, but more particularly that of the patient's extending his lower extremities, & his own accord, this is always, corroborated unless, modification has taken place. On a post mortem examination the Peritonaeum will be found minutely injected with red blood, & exhibiting all the marks of the highest grade of inflammation with effusions of coagulable lymph, & in some cases extensive ulcerations but very rarely Gangrene or Necrosis can be found.

It would appear from the history of Peritonitis which I have given, that there would be little doubt as to the correct mode of treatment to be pursued, tho' I find however not to be the case. As no disease perhaps has there been more disputations or difference of opinion concerning the proper mode of treatment to be pursued than the one now under consideration. Whilst some allege that the liberal



one of Epine is the proper mode to be pursued,
there are others that utterly deny its utility, & urge
the debilitating means to the fullest extent. Nor is
this difference of opinion confined to the more
illiterate of our profession. Many of the more
enlightened practitioners of Europe, particularly
Sir George Fordyce & his disciples maintain that
Epine is the proper remedy ^{the one} & mostly to be
relied on. Although the Pathology of Peritonitis
seems not to be well understood yet there can be
certainly very little doubt as to the correct mode
of treatment to be pursued. When called to a
case of Peritonitis we should consider that we
have under our care, a species of inflammation
very rapid in its course & if not timely arrested
inevitably proves fatal. Over thus to subdue
inflammation seems to be our first object, our
most constant it in the most active manner, by
the most appropriate remedies for this
purpose. There are three & which the most important

[illegible]

of which is bloodletting, pushed as far as possible consistent with the strength of the patient & the urgency of the symptoms, regardless entirely of the pulse. The pulse in this disease, is never active or strong but feels corded & depressed in proportion to the violence of the attack, so that it rises as we continue to abstract blood. In no case of inflammation, is bloodletting of much avail, unless it be used at an early period of the disease & pushed to such an extent, as to produce a decided impression on the system which is induced by weakness of pulse, nausea & some degree of exsiccation. The pain however should be the chief criterion, by which the practitioner should be regulated in bleeding, never to stop the flow of blood until the pain, is removed or very much diminished. Tissue distention by the lancet will not always succeed in relieving the pain or in eradicating or curing the disease though it keeps it near, & mitigates greatly its violence.

[illegible]

Finding that the lancet cannot eradicate the disease,
 we should as an auxiliary have recourse to
 topical depletion, by cups or leeches taking away as
 much blood by these means as possible. As it
 respects the other topical applications, such as
 the ones we seem not to be less disputation on
 a difference of opinion than with regard to bleeding.

Dr. Ferriman gives us even the experience of Dr. Chopra
 which has not been limited in this disease, & to
 which I always adhere with the greatest deference,
 I am lead to believe with him, that they are
 among the most important of the topical applications
 provided they be properly timed. They should
 & undoubtedly be applied, by warm fomentations
 to the abdomen, & by liberal direct stuporifics. The
 best mode by which fomentations can be directed,
 is by bread & milk rentices laid on over the
 whole abdomen, or by musk placed in a bag
 moderately full so that it may adapt itself more
 accurately to the contour of the belly: the next step.

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to be removed, is to excite copious hemorrhages, this
 operation has the important effect in Prostatic inflammation
 & the arteries seem to excite new long-continued
 influence by drawing off the blood from the
 capillaries of the Prostate and determining it
 to the surface of the body by giving to it a
 counter-torcal direction. To induce perspiration
 we should confide mostly in external means,
 & above all in the vapour bath. The operation
 of the bath should be aided by the use of
 diaphoretics internally into which opium enters
 largely, the best of which seems to be the
 Dover's Powders. To show the great utility of the
 bath a case is related by Dr Chopman in his
 lectures, in which two of the most eminent practitioners.

Phis were engaged, they had taken from
 14 to 15 $\frac{1}{2}$ Z of blood in a short period, without
 apparently having ^{derived} any or much benefit. It was
 now proposed by some one of them, to excite
 new directions, & the vapour bath was employed.

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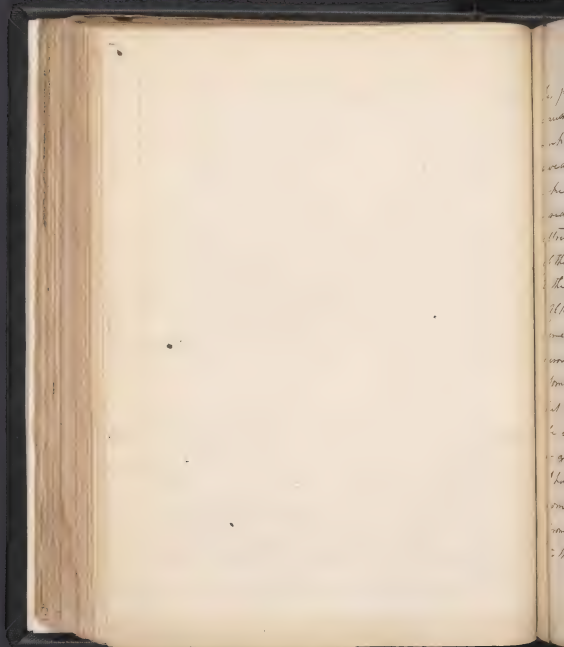
Scarcely had the remedy began to act, when the pulse became soft & all the symptoms very much mitigated, from the terminations. & this cure the Dr. has been lead to the diaphoretic plan early in the disease, but never until V. Section has been copiously used. It has ever been remarked as a distinguishing symptom in this disease, that however great the pain may be, there is no desire to go to stool & that evacuations from the bowels produce no relief to the patient. Unavoidably however as cathartics may be in this disease yet they should not be entirely overlooked. When evacuations from the bowels by purgatives, are considered less serviceable in Peritoneal inflammation than in any of the Phlegmasia I cannot pretend to say. That they are among the most important remedies in Puerperal Fever, no one I presume will pretend to deny & that this is a disease dependent on a great measure on Peritoneal inflammation there can be at present hardly little doubt. The bowels however in Puerperal Fever

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always be kept in a soluble condition, either
 either by mild laxatives, or by enemata which
 perhaps is preferable. In making use of the
 enemata they should be composed of the mildest
 ingredients exhibited in the largest quantities
 as to act as emollients to the intestines.

Peritoneal inflammation I must
 again repeat, is repulse with danger & best
 with difficulties from the commencement. In most
 cases it is well marked from the commencement,
 though sometimes irregularities occur which
 is well calculated to mislead the practitioner,
 & direct his attention from those remedies by which
 it should be always encountered. Frequently in
 the commencement of a violent attack there is
 great profusion of strength, & the pulse is as low
 & subtle as to induce a belief that the patient is
 too much debilitated, to admit of direct depletion.
 A case of this kind is always one of depression
 or as it were backed up in the system.



If blood be now detracted, it is probable that the patient will sink, & the system not having the power by depression to meet the ^{1st} terminalis fatally. In a case of this kind we should attempt to rouse the energies of the system & for this purpose the patient should be placed in a warm bath, diaphoretics should be given, at the same time; when the disease begins to develop itself we should make use of small repeated bleedings in order to hasten it, & when fully developed, make use with respect safety & advantage a more liberal use of the lancet.

There are also cases of an apoplectic ~~nature~~ character, which are not less dangerous from the latent security which it creates. It commences with a slight tenderness of the abdomen, little or no fever, pulse nearly natural being rather quick & a little corded. The practitioner is totally unconscious of the danger which attends

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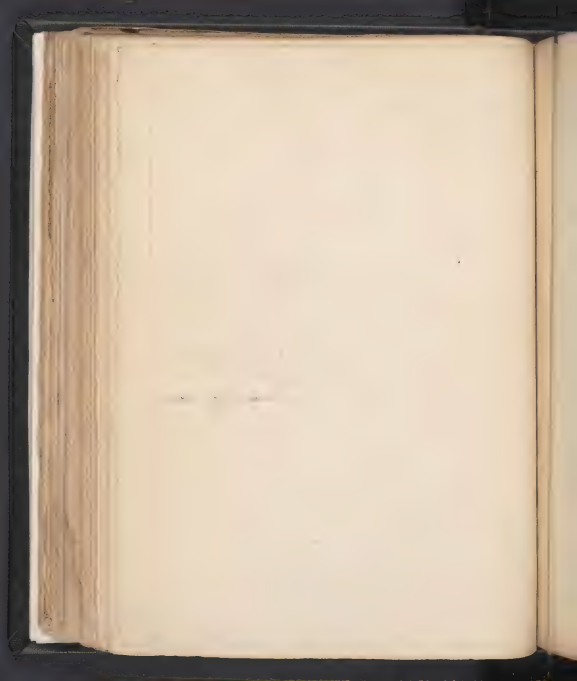
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his patient, when suddenly by some unknown cause the system becomes depressed, the pulse sinks the surface covered with a cold clammy sweat, & a discharge of black matter now takes place from the Stomach. This is the most insidious & alarming form of the disease, & I attribute it to inflammation attacking that part of the Peritoneum contiguous to the stomach or to the upper part of the alimentary canal.

After having unavailingly tried all the other remedies in this case we should as a dernier resort, recur to the use of the Spirit of Turpentine.

Some practitioners recur to it early in the disease, but it is now pretty well agreed that it only should be used when the inflammation is about to terminate in gangrene, which is manifested by symptoms I have already mentioned. Turpentine is most commonly recommended in very small doses, from an idea that it is too heating & stimulating to the Stomach, this says Dr. Chopman is



is altogether a mistake & when we do recur to it, it is apparently under the most desperate form of the disease. The plan which is to be pursued by him is to administer a tea spoon full of the oil every two or three hours, & increasing it if necessary until its beneficial effects are produced.

Thus Gentlemen bound to the best of my abilities fulfill the requisitions of your institutions. I should be wanting in gratitude, were I not however to express to you, individually, my most sincere Thanks, for the many numerous & extensive sources of information which have been received at your hands.

October the 28th 1822.

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